

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: William Gurigat SR Examiner #: 62100 Date: 8/4/03
 Art Unit: 1754 Phone Number 30 5-7792 Serial Number: 09997, 617
 Mail Box and Bldg/Room Location: CP3-9415 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Conversion of CO to CO₂

Inventors (please provide full names): Joseph Puzach and Thomas Hewitt

Earliest Priority Filing Date: _____

Far Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

STAFF USE ONLY

	Type of Search	Vendors and cost where applicable
Searcher: <u>ES</u>	NA Sequence (#) _____	STN <u>\$ 244.50</u>
Searcher Phone #: _____	AA Sequence (#) _____	Dialog _____
Searcher Location: _____	Structure (#) <u>2</u>	Questel/Orbit _____
Date Searcher Picked Up: _____	Bibliographic <u>(and)</u>	Dr. Link _____
Date Completed: <u>8-8-03</u>	Litigation _____	Lexis/Nexis _____
Searcher Prep & Review Time: <u>10</u>	Fulltext _____	Sequence Systems _____
Clerical Prep Time: _____	Patent Family _____	WWW/Internet _____
Online Time: <u>130</u>	Other _____	Other (specify) _____

WEST**End of Result Set**

Generate Collection

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L8: Entry 1 of 1

File: DWPI

Oct 31, 1990

DERWENT-ACC-NO: 1990-336056

DERWENT-WEEK: 199045

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TITLE: Supported gold catalyst - for low temp. oxidn. of carbon mon:oxide

INVENTOR: FLAKE, H; STRAUSS, G ; FALKE, H

PATENT-ASSIGNEE:

ASSIGNEE

GUTEC GES ENTWICKL

SOLVAY CATALYSTS GMBH

CODE

GUTEN

SOLV

PRIORITY-DATA: 1989DE-3914294 (April 29, 1989)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
DE 3914294 A	October 31, 1990		000	
DE 59002254 G	September 16, 1993		000	B01D053/36
EP 395856 A	November 7, 1990		000	
EP 395856 B1	August 11, 1993	G	008	B01D053/36
ES 2043146 T3	December 16, 1993		000	B01D053/36
JP 02303539 A	December 17, 1990		000	
US 5068217 A	November 26, 1991		000	

DESIGNATED-STATES: AT BE CH DE ES FR GB IT LI NL SE AT BE CH DE DK ES FR GB IT LI NL SE

CITED-DOCUMENTS:1.Jnl.Ref; EP 147839 ; FR 2530160 ; FR 906299 ; US 4698324 ; US 4839327

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
DE 3914294A	April 29, 1989	1989DE-3914294	
DE 59002254G	March 9, 1990	1990DE-0502254	
DE 59002254G	March 9, 1990	1990EP-0104477	
DE 59002254G		EP 395856	Based on
EP 395856A	March 9, 1990	1990EP-0104477	
EP 395856B1	March 9, 1990	1990EP-0104477	
ES 2043146T3	March 9, 1990	1990EP-0104477	
ES 2043146T3		EP 395856	Based on
JP 02303539A	April 27, 1990	1990JP-0110729	
US 5068217A	April 9, 1990	1990US-0506345	

INT-CL (IPC): A62B 29/00; B01D 53/36; B01J 23/89; C04B 41/88; C10K 3/04

ABSTRACTED-PUB-NO: DE 3914294A

BASIC-ABSTRACT:

(A) Prodn. of a supported catalyst, for CO oxidn. at below 50 deg.C, involves subjecting a Fe₂O₃-contg. porous ceramic support to impregnation with a gold cpd. soln. or coating with a gold cpd. suspension opt. drying and then calcination at at least 200 deg.C, the amt. of gold cpd. applied to the support being such that the gold content, based on total wt. of finished supported catalyst is 0.01-15 (pref. 0.05-4 esp. 0.1-1) wt.%. (B) Also claimed are (i) a supported catalyst obtd. by the process, and (ii) catalytic CO oxidn. at below 50 deg.C by passing a gas mixt. contg. CO and O₂ over a supported catalyst made by the process.

ADVANTAGE - The supported catalyst is effective at low temps. and in the presence of moisture, is easy to handle, makes economical use of gold and is simple to produce.

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ABSTRACTED-PUB-NO:

EP 395856B

EQUIVALENT-ABSTRACTS:

Process for the production of carrier catalysts for the oxidation of CO at temperatures below 50 deg.C, characterised in that a porous ceramic carrier material containing Fe₂O₃ (a) is impregnated with a solution of a gold compound or is coated with the suspension of a gold compound and is additionally impregnated with a solution of an iron compound or is coated with the suspension of an iron compound and is then dried if desired and (b) the carrier material containing a gold compound is calcined at a temperature of at least 200 deg.C, with the proviso that the gold compound is applied to the material in such a quantity that the content of gold, relative to the total weight of the finished carrier catalyst, is between 0.01 percent by weight and 15 percent by weight, preferably between 0.05 and 4, in particular between 0.1 and 1 percent by weight.

US 5068217A

A process for producing a carrier catalyst for oxidising carbon monoxide at temps. below 50 deg.C is new and comprises the steps (a), (b) and (c). (a) is providing a porous ceramic carrier material contg. Fe₂O₃. (b) is impregnating carrier material with a soln. of a gold and a soln. of iron cpd., (c) is calcining the impregnated carrier material contg.

the Ag and Fe cpd. at a temp. of at least 200 deg.C. The gold cpd. is applied to the carrier material in such an amt. that the gold content is 0.01-15 (pref. 0.01-1) wt.% relative to the total wt. of the calcined carrier catalyst. USE/ADVANTAGE - The catalyst is effective at low temps. even in the presence of moisture and are easy to handle and to produce.

(6pp)

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: SUPPORT GOLD CATALYST LOW TEMPERATURE OXIDATION CARBON MONO OXIDE

DERWENT-CLASS: E36 J04 P35

CPI-CODES: E35-B; E35-U05; J01-E02D; J04-E04; N02-A; N02-E;

CHEMICAL-CODES:

Chemical Indexing M3 *01*

Fragmentation Code

C106 C108 C550 C730 C800 C801 C802 C803 C805 C807

M411 M750 M903 M904 M910 N163 Q020 Q431 Q436 Q439

Specific Compounds

01423X

Registry Numbers

1327U 0502U

Chemical Indexing M3 *02*

Fragmentation Code

A426 A940 C108 C307 C510 C730 C801 C802 C803 C804

C807 M411 M730 M782 M903 M904 M910 Q020 Q421 Q431
Q436 Q439 Q508
Specific Compounds
01918C 01918M 03294C 03294M
Registry Numbers
1327U 0502U

Chemical Indexing M3 *03*

Fragmentation Code
A679 A940 A980 C017 C100 C101 C730 C801 C804 C805
C806 C807 M411 M730 M782 M903 M904 Q020 Q421 Q431
Q436 Q439 Q508
Specific Compounds
10048C 10048M 13734C 13734M
Registry Numbers
1327U 0502U

UNLINKED-DERWENT-REGISTRY-NUMBERS: 1423U; 1779S ; 1918U

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1990-145831

Non-CPI Secondary Accession Numbers: N1990-257011

09/997,1617 WEST Search History

DATE: Monday, August 04, 2003

Set Name Query

side by side

Hit Count Set Name

result set

DB=USPT,PGPB,JPAB,EPAB; THES=ASSIGNEE; PLUR=YES; OP=ADJ

L8	L6 and L7	181	L8
L7	CO.u/c. or carbon monoxide	2739008	L7
L6	L4 and L5	253	L6
L5	iron or fe or ferric or ferrous	514811	L5
L4	L1 and L2 and L3	440	L4
L3	gold or au or auric or aurous	4087802	L3
L2	((518/713)!.CCLS. (502/330 502/344)!.CCLS. (423/247 423/245.3)!.CCLS.)	2751	L2
L1	catalyst or initiator	470855	L1

END OF SEARCH HISTORY

Problem Analysis and Search Strategy Worksheet

Case Number. 09/997,667		Filing Date-	
Applicants		Assignee	
Related US and foreign applications/docs		Publications applicant cited	
US Classes and subclasses		International classification	
catalyst or initiator			
Concept A	Concept B	Concept C	Concept D
Preparation , preparing made by making, manufacturing process	(containing) separating washing or wash	drying/dried/dryer grading calcining	(Au or GOLD) and from a Fe
Synonyms	Synonyms	Synonyms	Synonyms
	OR	OR	OR
Databases			
C mmands, syntax, search statements for each database			

09/997, 617

WEST Search History

DATE: Friday, July 18, 2003

Set Name Query

side by side

Hit Count Set Name

result set

DB=USPT,PGPB,JPAB,EPAB; THES=ASSIGNEE; PLUR=YES; OP=ADJ

L21	L20 and L19	53	L21
L20	CO.u/c. or carbon monoxide	2737449	L20
L19	L18 and L17	101	L19
L18	L15 and L16	127	L18
L17	iron or fe or ferric or ferrous	513144	L17
L16	gold or au or auric or aurous	4086416	L16
L15	L14 and L12	785	L15
L14	L13 and L11	72415	L14
L13	L9 and L10	126728	L13
L12	L7 and L8	7831	L12
L11	L5 and L6	351328	L11
L10	L3 and L4	747865	L10
L9	L1 and L2	411695	L9
L8	calcin\$6	63594	L8
L7	grind\$4	170827	L7
L6	dry\$3 or dries or dried	956323	L6
L5	washing or wash or washes or washed	550266	L5
L4	separat\$4	2498878	L4
L3	combin\$4	1210623	L3
L2	prepar\$6 or made by or making or manufactur\$4 or produc\$4	5103365	L2
L1	catalyst or initiator	469364	L1

END OF SEARCH HISTORY